

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/529,452
Source: PUT/10
Date Processed by STIC: 4/5/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 04/05/2005

PATENT APPLICATION: US/10/529,452

TIME: 13:29:06

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\04052005\J529452.raw

```

4 <110> APPLICANT: Iwamoto, Aikichi
5   Tachikawa, Ai
7 <120> TITLE OF INVENTION: Methods For Enhancing Exogenous Epitope
8   Display on MHC Class 1 Through Inhibition of Tap Activity
11 <130> FILE REFERENCE: 50026/051001
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/529,452
C--> 13 <141> CURRENT FILING DATE: 2005-03-28
13 <150> PRIOR APPLICATION NUMBER: PCT/JP03/12595
14 <151> PRIOR FILING DATE: 2003-10-01
16 <150> PRIOR APPLICATION NUMBER: JP 2002-288394
17 <151> PRIOR FILING DATE: 2002-10-01
19 <160> NUMBER OF SEQ ID NOS: 54
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 4
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Artificially Synthesized Sequence
31 <400> SEQUENCE: 1
32 Gly Gly Gly Ser
33 1
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 5
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Artificially Synthesized Sequence
44 <400> SEQUENCE: 2
45 Gly Gly Gly Gly Ser
46 1 5
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 10
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Artificially Synthesized Sequence
57 <400> SEQUENCE: 3
58 Gly Gly Pro Gly Gly Gly Ser Gly Gly Gly
59 1 5 10
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 20
64 <212> TYPE: PRT

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65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Artificially Synthesized Sequence
70 <400> SEQUENCE: 4
71 Gly Gly Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
72 1 5 10 15
73 Ser Gly Gly Gly
74 20
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 30
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Artificially Synthesized Sequence
85 <400> SEQUENCE: 5
86 Gly Gly Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
87 1 5 10 15
88 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
89 20 25 30
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 10
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Artificially Synthesized Sequence
100 <400> SEQUENCE: 6
101 Gly Gly Ser Gly Gly Gly Ala Ser Gly Gly
102 1 5 10
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 37
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Artificially Synthesized Sequence
113 <400> SEQUENCE: 7
114 gggcggatcc ggactcagaa tctccccaga cgccgag 37
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 39
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Artificially Synthesized Sequence
124 <400> SEQUENCE: 8
125 ccgcctcgag ctggggagga aacagggtcag catgggaac 39
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 30
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:

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133 <223> OTHER INFORMATION: Artificially Synthesized Sequence
135 <400> SEQUENCE: 9
136 ggcacgagcc gagatgtctc gctccgtggc 30
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 30
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Artificially Synthesized Sequence
146 <400> SEQUENCE: 10
147 aatttggaat tcatccaatc caaatgcggc 30
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 12
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Artificially Synthesized Sequence
157 <400> SEQUENCE: 11
158 Gly Gly Gly Ser Gly Gly Ser Gly Gly Gly Ser
159 1 5 10
162 <210> SEQ ID NO: 12
163 <211> LENGTH: 60
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Artificially Synthesized Sequence
170 <400> SEQUENCE: 12
171 ggaggtggcg ggtccggagg tggttctggt ggaggttcga tccagcgtac tccaaagatt 60
174 <210> SEQ ID NO: 13
175 <211> LENGTH: 63
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Artificially Synthesized Sequence
182 <400> SEQUENCE: 13
183 tctggcctgg aggctagata tccactgacc tttggatggt gcttcggagg aggtggcggg 60
184 tcc 63
186 <210> SEQ ID NO: 14
187 <211> LENGTH: 63
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Artificially Synthesized Sequence
194 <400> SEQUENCE: 14
195 tctggcctgg aggctagata cctaagggat caacagctcc tagggattgg aggtggcggg 60
196 tcc 63
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 81
200 <212> TYPE: DNA

```

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```

201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Artificially Synthesized Sequence
206 <400> SEQUENCE: 15
207 tgcggccgcc gtacggccga gatgtctcgc tccgtggcct tagctgtgct cgcgctactc 60
208 tctctttctg gcctggaggc t 81
210 <210> SEQ ID NO: 16
211 <211> LENGTH: 71
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Artificially Synthesized Sequence
218 <400> SEQUENCE: 16
219 ttgcggccgc gatgaacttt caccctaagt tttcttact acggcgtacg ttacatgtct 60
220 cgatccact t 71
222 <210> SEQ ID NO: 17
223 <211> LENGTH: 42
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Artificially Synthesized Sequence
230 <400> SEQUENCE: 17
231 tgcggccgcc gtacggccga gatgtctcgc tccgtggcct ta 42
233 <210> SEQ ID NO: 18
234 <211> LENGTH: 80
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Artificially Synthesized Sequence
W--> 241 <221> NAME/KEY: CDS
242 <222> LOCATION: (21)...(80)
W--> 244 <400> 18
245 gcgccgccg tacggccgag atg tct cgc tcc gtg gcc tta gct gtg ctc gcg 53
246 Met Ser Arg Ser Val Ala Leu Ala Val Leu Ala
247 1 5 10
249 cta ctc tct ctt tct ggc ctg gag gct 80
250 Leu Leu Ser Leu Ser Gly Leu Glu Ala
251 15 20
254 <210> SEQ ID NO: 19
255 <211> LENGTH: 20
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Artificially Synthesized Sequence
262 <400> SEQUENCE: 19
263 Met Ser Arg Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser
264 1 5 10 15
265 Gly Leu Glu Ala
266 20

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DATE: 04/05/2005

PATENT APPLICATION: US/10/529,452

TIME: 13:29:06

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\04052005\J529452.raw

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269 <210> SEQ ID NO: 20
270 <211> LENGTH: 30
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Artificially Synthesized Sequence
W--> 277 <221> NAME/KEY: CDS
278 <222> LOCATION: (1)...(30)
W--> 280 <400> 20
281 aga tat cca ctg acc ttt gga tgg tgc ttc
282 Arg Tyr Pro Leu Thr Phe Gly Trp Cys Phe
283 1 5 10
286 <210> SEQ ID NO: 21
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Artificially Synthesized Sequence
294 <400> SEQUENCE: 21
295 Arg Tyr Pro Leu Thr Phe Gly Trp Cys Phe
296 1 5 10
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 33
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Artificially Synthesized Sequence
W--> 307 <221> NAME/KEY: CDS
308 <222> LOCATION: (1)...(33)
W--> 310 <400> 22
311 aga tac cta agg gat caa cag ctc cta ggg att
312 Arg Tyr Leu Arg Asp Gln Gln Leu Leu Gly Ile
313 1 5 10
316 <210> SEQ ID NO: 23
317 <211> LENGTH: 11
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Artificially Synthesized Sequence
324 <400> SEQUENCE: 23
325 Arg Tyr Leu Arg Asp Gln Gln Leu Leu Gly Ile
326 1 5 10
329 <210> SEQ ID NO: 24
330 <211> LENGTH: 60
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Artificially Synthesized Sequence
W--> 337 <221> NAME/KEY: CDS

```

VERIFICATION SUMMARY

DATE: 04/05/2005

PATENT APPLICATION: US/10/529,452

TIME: 13:29:07

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\04052005\J529452.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:241 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:277 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:280 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:307 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:337 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:340 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:373 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:376 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26
L:427 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:430 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:457 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:460 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:544 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:547 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
L:578 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:581 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41
L:609 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:612 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:643 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:646 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45
L:1381 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:53,Line#:1379